

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/18524

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : GOIN 33/533; 33/53; C07K 17/06  
US CL : 436/546; 435/7.72; 530/391.5; 435/7.5

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 436/546; 435/7.72; 530/391.5; 435/7.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
435/7.74; 435/21; 435/207

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Chen G.Y.J. et al. Developing a strategy for activity-based detection of enzymes in a protein microarray. ChemBioChem 2003, Vol 4. No.4, pages 336-339.	1-20
Y	Zhu Q. et al. Activity-based fluorescent probes that target phosphatases. Tetrahedron Letters. 2003, Vol 44. No.13, pages 2669-2672	1-20
Y	Lo Le-Chiang et al. Design and synthesis of class-selective activity probes for protein tyrosine phosphatases. 2002, Vol.1, No.1, Pages 35-40.	1-20
X	Tsai Charng-Sheng et al. Design and synthesis of activity probes for glycosidases. Organic Letters. 2002, Vol.4, No.21, 3607-3610	15-18 and 20
---		
Y		1-14

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family

Date of the actual completion of the international search

15 December 2004 (15.12.2004)

Date of mailing of the international search report

16 FEB 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Authorized officer

Shafiqul Haq

Telephone No. 703-308-0198

Facsimile No. (703) 305-3230

Form PCT/ISA/210 (second sheet) (July 1998)

**INTERNATIONAL SEARCH REPORT**

PCT/US04/18524

**Continuation of B. FIELDS SEARCHED Item 3:**  
CAS Online, CAPLAS, EAST.

Search terms: Structure search, hydrolytic, enzyme substrate, cleavage, fluorescent dye, enzyme activation